





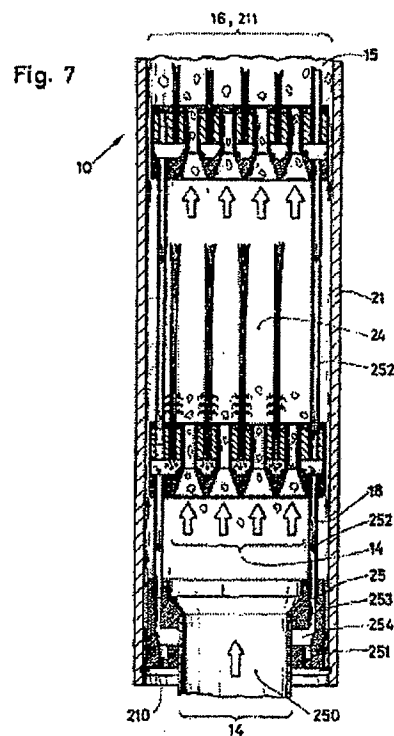


Apparatus for separating liquid media containing impurities**Publication number:** EP0947237**Publication date:** 1999-10-06**Inventor:** HEINE WILHELM (DE); RAUTENBACH ROBERT PROF DR (NL); VOSENKAUL KLAUS (DE)**Applicant:** ROCHEM RO WASSERBEHANDLUNG GMB (DE)**Classification:****- international:** B01D63/02; B01D63/04; B01D63/06; B01D65/08; B01D63/02; B01D63/04; B01D63/06; B01D65/00; (IPC-7): B01D63/04; B01D63/06; B01D65/08**- European:** B01D63/02D; B01D63/04B; B01D63/06D12; B01D65/08B**Application number:** EP19980104588 19980313**Priority number(s):** EP19980104588 19980313; DE19981011945 19980313; DE19982004927U 19980313★ **Also published as:** EP0947237 (A1) DE19811945 (A1) DE29804927U (U1) ←**Cited documents:** GB2011796 FR2265437 EP0207379 FR2234912 EP0707884

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A municipal water treatment plant removes impurities by a membrane filter (10) with an inlet. The membrane filter concentrates impurities in the retentate and releases the permeate through an outlet. The impure water (11) is passed through the membrane filter within a number of tubes (20) surrounded by membranes (13) in the direction of flow (19). The novelty is that: (a) each tube (20) is substantially encompassed by a group of membrane elements (13) in the shape of a polygon; (b) the water passage (20) is hexagonal or circular; (c) the membrane elements (13) are cushion- or pocket-shaped, or are formed by hollow fibre membranes; (d) the membrane elements (13) are enclosed within a housing (21) from which they may be detached by fixtures (22).



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